FIG. 1

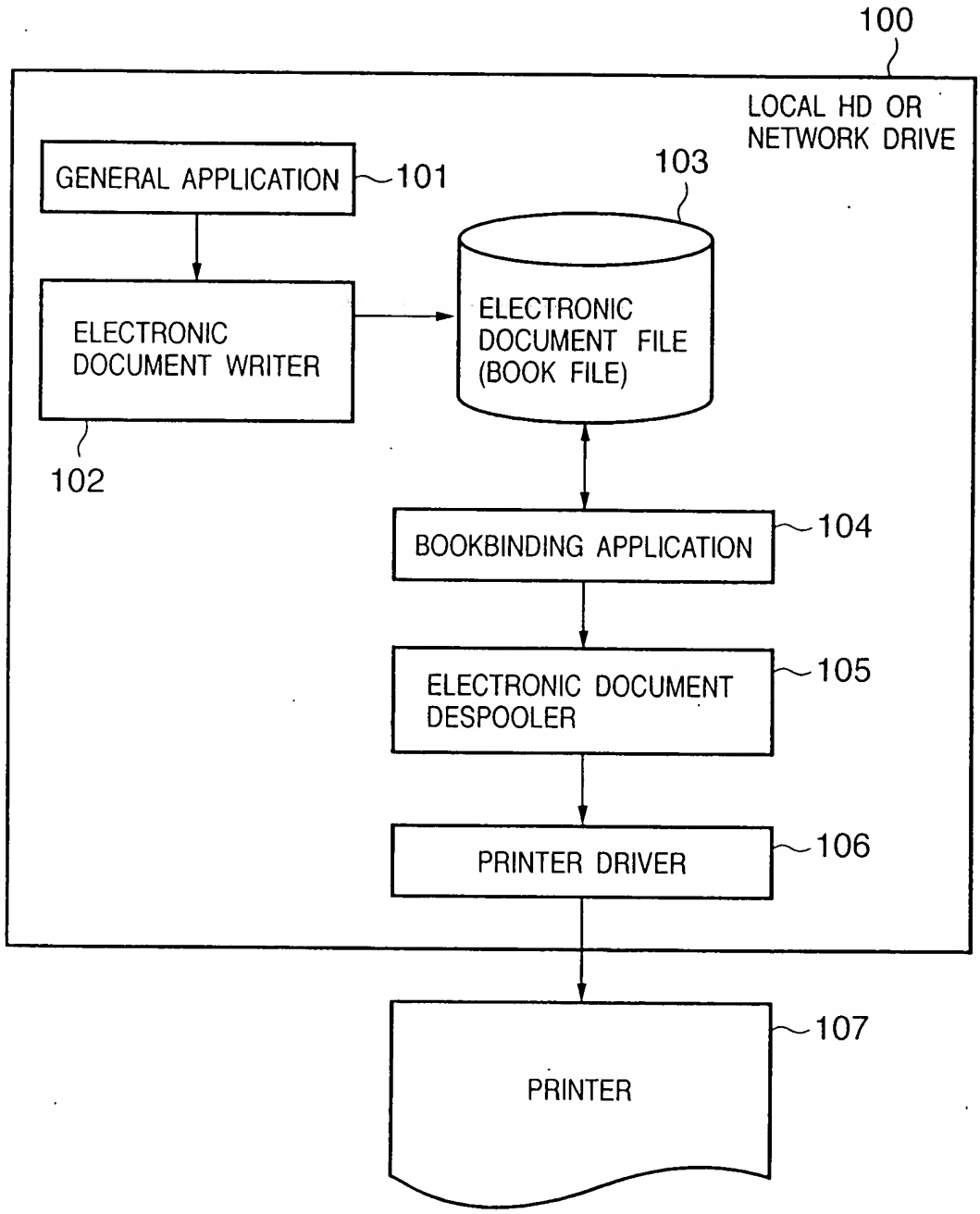

100
LOCAL HD OR
NETWORK DRIVE
GENERAL APPLICATION
101
103
ELECTRONIC
DOCUMENT WRITER
ELECTRONIC
DOCUMENT FILE
(BOOK FILE)
102
BOOKBINDING APPLICATION
104
ELECTRONIC DOCUMENT
DESPOOLER
105
PRINTER DRIVER
106
PRINTER
107

FIG. 2A

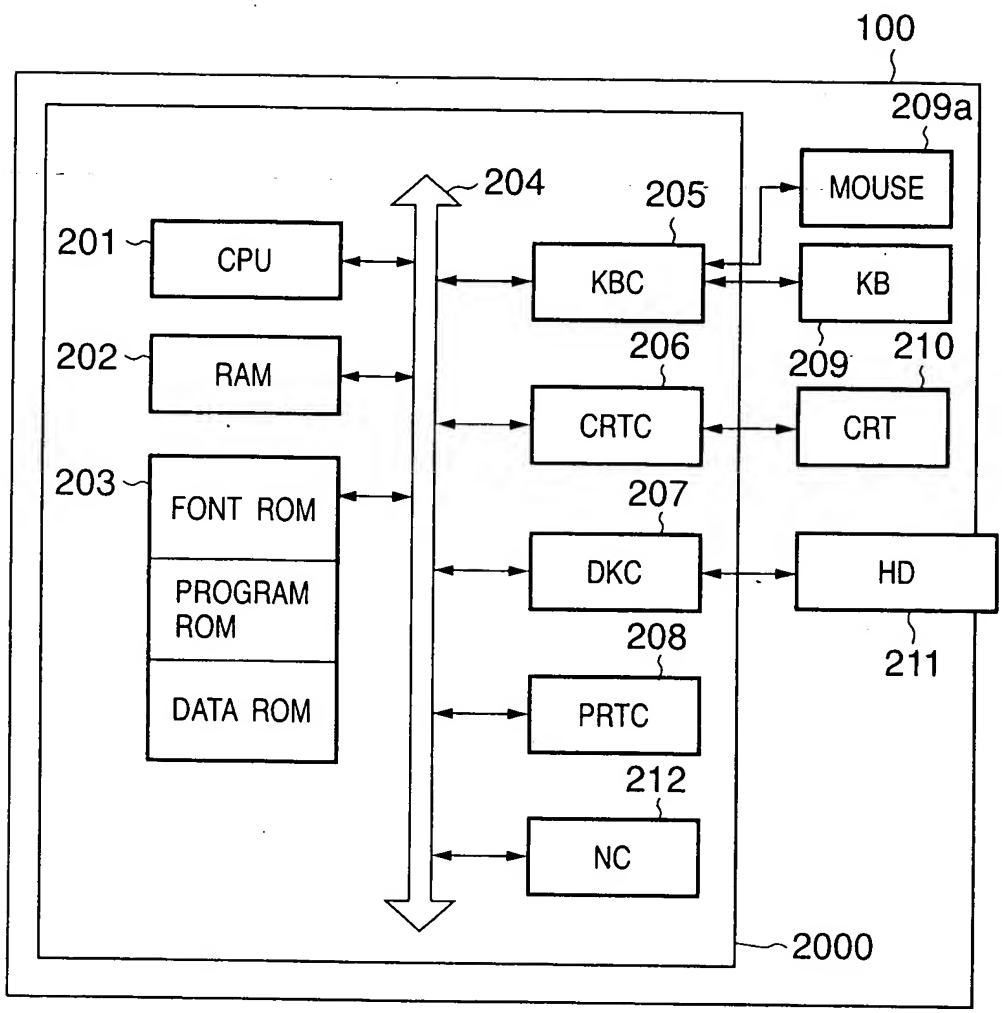

100
209a
MOUSE
204
205
201
CPU
KBC
KB
202
RAM
206
209
210
CRTC
CRT
203
FONT ROM
207
PROGRAM ROM
DKC
HD
208
211
DATA ROM
PRTC
212
NC
2000

FIG. 2B

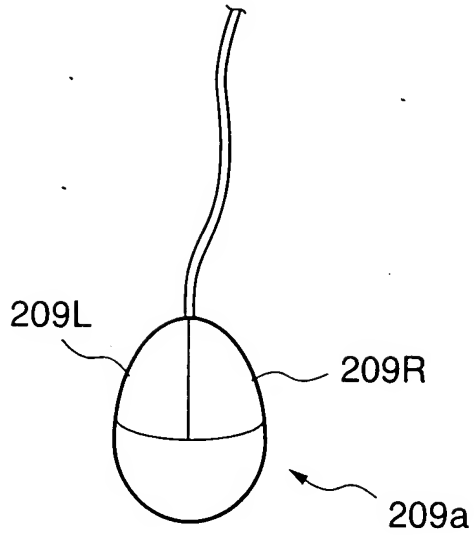


FIG. 3A

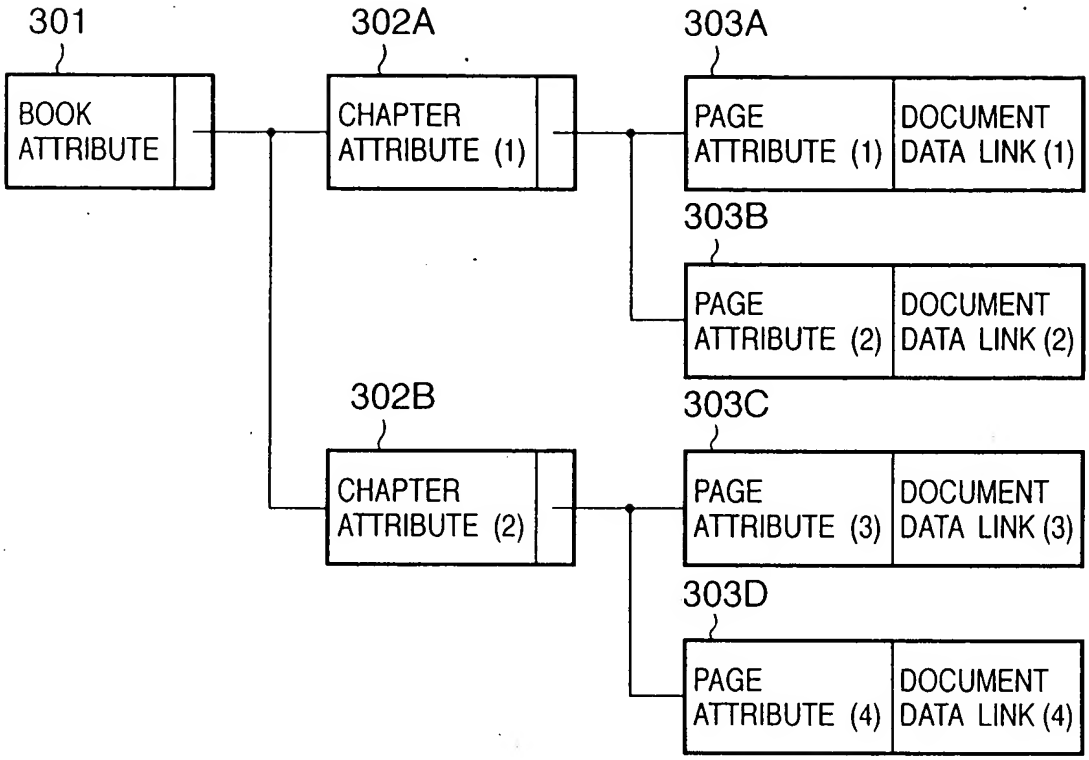

301
BOOK ATTRIBUTE
302A
CHAPTER ATTRIBUTE (1)
303A
PAGE ATTRIBUTE (1)
DOCUMENT DATA LINK (1)
303B
PAGE ATTRIBUTE (2)
DOCUMENT DATA LINK (2)
302B
CHAPTER ATTRIBUTE (2)
303C
PAGE ATTRIBUTE (3)
DOCUMENT DATA LINK (3)
303D
PAGE ATTRIBUTE (4)
DOCUMENT DATA LINK (4)

FIG. 3B

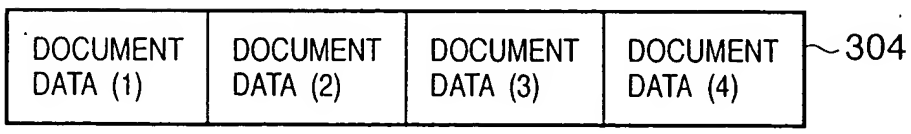

DOCUMENT DATA (1)
DOCUMENT DATA (2)
DOCUMENT DATA (3)
DOCUMENT DATA (4)
304

FIG. 4A

NO	ATTRIBUTE INFORMATION		REMARKS
1	PRINTING METHOD	SINGLE-SIDED / DOUBLE-SIDED / BOOKBINDING PRINTING	
2	PAPER SIZE	DOCUMENT SIZE / FIXED SIZE	• Z-FOLD IS DESIGNATED WHEN "A4 + A3", "B4 + B3", OR "LETER + LEDGER (11 × 17)" IS DESIGNATED • DOCUMENT SIZE OF FIRST CHAPTER / PAGE IS AUTOMATICALLY SELECTED WHEN BOOKBINDING PRINTING OR N-up PRINTING IS DESIGNATED
3	PAPER DIRECTION	PORTRAIT / LANDSCAPE	• SELECTABLE ONLY FOR FIXED SIZE
4	BINDING MARGIN / BINDING DIRECTION		• SHIFT / ENLARGEMENT & REDUCTION CAN BE DESIGNATED
5	N-up PRINTING	NUMBER OF PAGES / LAYOUT ORDER / BOUNDARY / LAYOUT POSITION, etc.	• LAYOUT POSITION : NINE PATTERNS • X1 PRINTING CAN BE DESIGNATED
6	ENLARGEMENT / REDUCTION	ON / OFF	ON / OFF CAN BE AUTOMATICALLY DESIGNATED WHEN PAPER SIZE IS FIXED SIZE OR N-up PRINTING IS SELECTED
7	WATERMARK		• DESIGNATION IS POSSIBLE INDIVIDUALLY IN LOGICAL OR PHYSICAL PAGES • ALL CHAPTERS / PAGES ARE TARGETED

FIG. 4B

8	HEADER / FOOTER		• DESIGNATION IS POSSIBLE INDIVIDUALLY IN LOGICAL OR PHYSICAL PAGES • ALL CHAPTERS / PAGES ARE TARGETED
9	DELIVERY METHOD	STAPLING / PUNCH HOLE	• STAPLING / PUNCHING ONLY IN SINGLE- / DOUBLE-SIDED PRINTING • STAPLING AT ONE / TWO PORTIONS
10	DETAILS OF BOOKBINDING	OPENING DIRECTION / SADDLE STITCH / ENLARGEMENT & REDUCTION DESIGNATION / BINDING MARGIN / FASCICLE DESIGNATION, etc	• ONLY IN BOOKBINDING PRINTING
11	FRONT / BACK COVER		• PRINTING IS DESIGNATED FOR 1/2 FRONT COVER OR 1/2 BACK COVER • FEED PORT (INCLUDING INSERTER) IS DESIGNATED
12	INDEX SHEET		• PRINTING OF CHARACTER STRING ON INDEX PORTION OR ANNOTATION ON INDEX SHEET CAN BE SET • BOOKBINDING PRINTING CANNOT BE DESIGNATED
13	SLIP SHEET		• FEED PORT (INCLUDING INSERTER) IS DESIGNATED • DOCUMENT DATA CAN BE PRINTED ON INSERTED PAPER • BOOKBINDING PRINTING CANNOT BE DESIGNATED
14	CHAPTERING	"NONE" / "PAGE BREAK" / "PAPER CHANGE"	• "PAPER CHANGE" IS FIXED WHEN INDEX SHEET OR SLIP SHEET IS DESIGNATED • "PAPER CHANGE" IN SINGLE-SIDED PRINTING

FIG. 5

NO	ATTRIBUTE INFORMATION		REMARKS
1	PAPER SIZE	DOCUMENT SIZE / FIXED SIZE	· "PAPER CHANGE" IS AUTOMATICALLY DESIGNATED WHEN FIXED SIZE IS SELECTED · WHEN A PLURALITY OF PAPER SHEETS ARE SELECTED BY BOOK, PAPER SIZE CAN BE CHANGED TO ONLY DESIGNATED PAPER PAPER SIZE CAN BE CHANGED EVEN WITH DESIGNATION COMPLYING WITH BOOK
2	PAPER DIRECTION	PORTRAIT / LANDSCAPE	· SELECTABLE ONLY FOR FIXED SIZE
3	N-up PRINTING DESIGNATION	NUMBER OF PAGES / LAYOUT ORDER / BOUNDARY / LAYOUT POSITION, etc.	· LAYOUT POSITION : NINE PATTERNS · X1 PRINTING CAN BE DESIGNATED
4	ENLARGEMENT / REDUCTION	ON / OFF	· ON / OFF CAN BE AUTOMATICALLY DESIGNATED WHEN PAPER SIZE IS FIXED SIZE OR N-up PRINTING IS SELECTED
5	WATERMARK	DISPLAY / NON-DISPLAY	· WHETHER TO DISPLAY ALL WATERMARKS DESIGNATED BY BOOK IS DESIGNATED
6	HEADER / FOOTER	DISPLAY / NON-DISPLAY	· WHETHER TO DISPLAY ALL HEADERS / FOOTERS DESIGNATED BY BOOK IS DESIGNATED
7	DELIVERY METHOD	STAPLING	· STAPLING CAN BE SET OFF WHEN STAPLING IS DESIGNATED BY BOOK DEFAULT VALUE IS "ON"

FIG. 6

NO	ATTRIBUTE INFORMATION		REMARKS
1	PAGE ROTATION DESIGNATION		• 0 ° / 90 ° / 180 ° / 270 ° CAN BE DESIGNATED
2	WATERMARK	DISPLAY / NON-DISPLAY	• WHETHER TO DISPLAY ALL WATERMARKS DESIGNATED BY BOOK IS DESIGNATED
3	HEADER / FOOTER	DISPLAY / NON-DISPLAY	• WHETHER TO DISPLAY ALL HEADERS / FOOTERS DESIGNATED BY BOOK IS DESIGNATED
4	ZOOM	50% - 200%	• MAGNIFICATION RELATIVE TO SIZE WHICH IS FIT IN VIRTUAL LOGICAL PAGE REGION AND SET AS 100% IS DESIGNATED
5	LAYOUT POSITION		• NINE FIXED PATTERNS AND ARBITRARY POSITION CAN BE DESIGNATED
6	ANNOTATION		
7	VARIABLE ITEM		
8	PAGE DIVISION		

FIG. 7

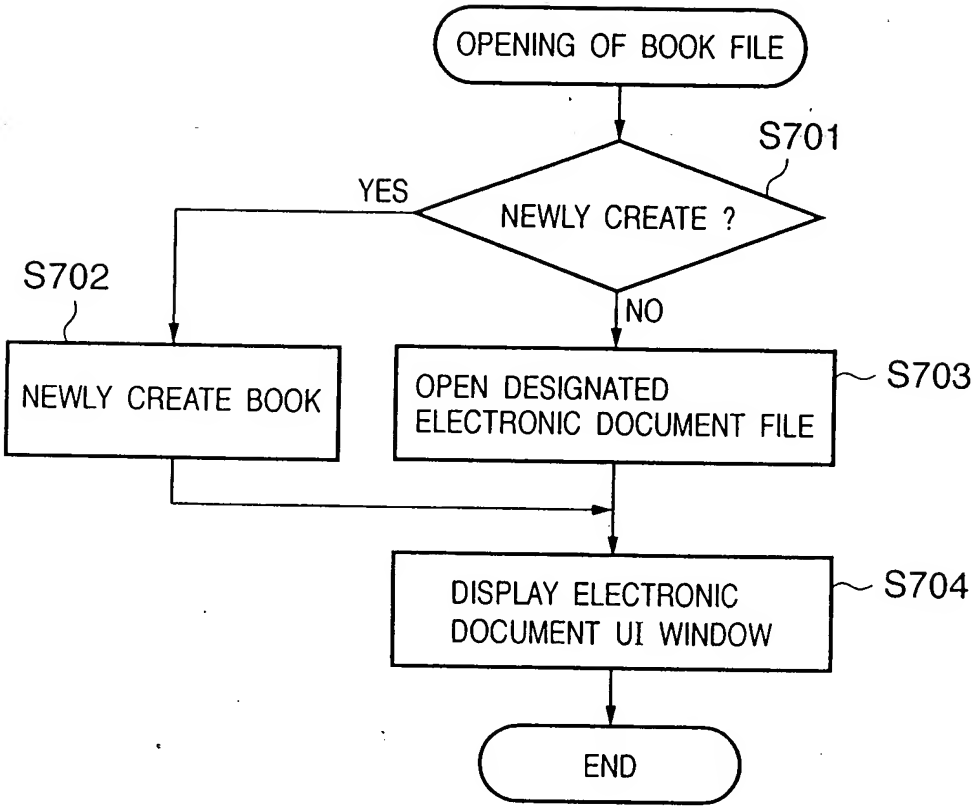

OPENING OF BOOK FILE
S701
NEWLY CREATE ?
YES
NO
S702
NEWLY CREATE BOOK
OPEN DESIGNATED ELECTRONIC DOCUMENT FILE
S703
DISPLAY ELECTRONIC DOCUMENT UI WINDOW
S704
END

FIG. 8

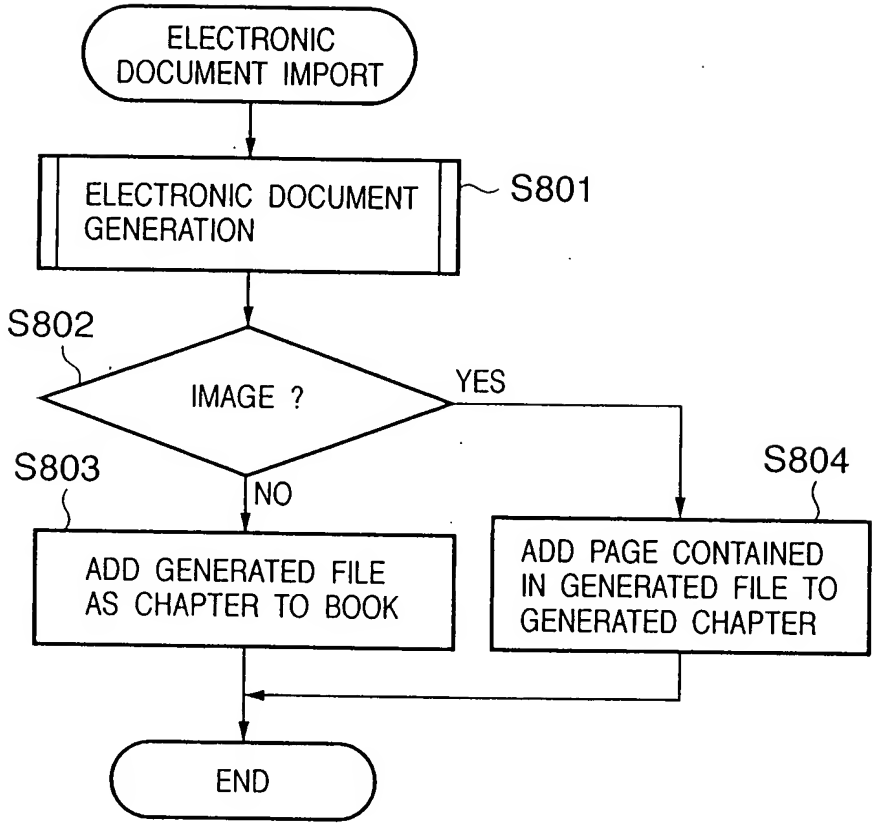

ELECTRONIC DOCUMENT IMPORT
ELECTRONIC DOCUMENT GENERATION
S801
S802
IMAGE ?
YES
NO
S803
S804
ADD GENERATED FILE AS CHAPTER TO BOOK
ADD PAGE CONTAINED IN GENERATED FILE TO GENERATED CHAPTER
END

FIG. 9

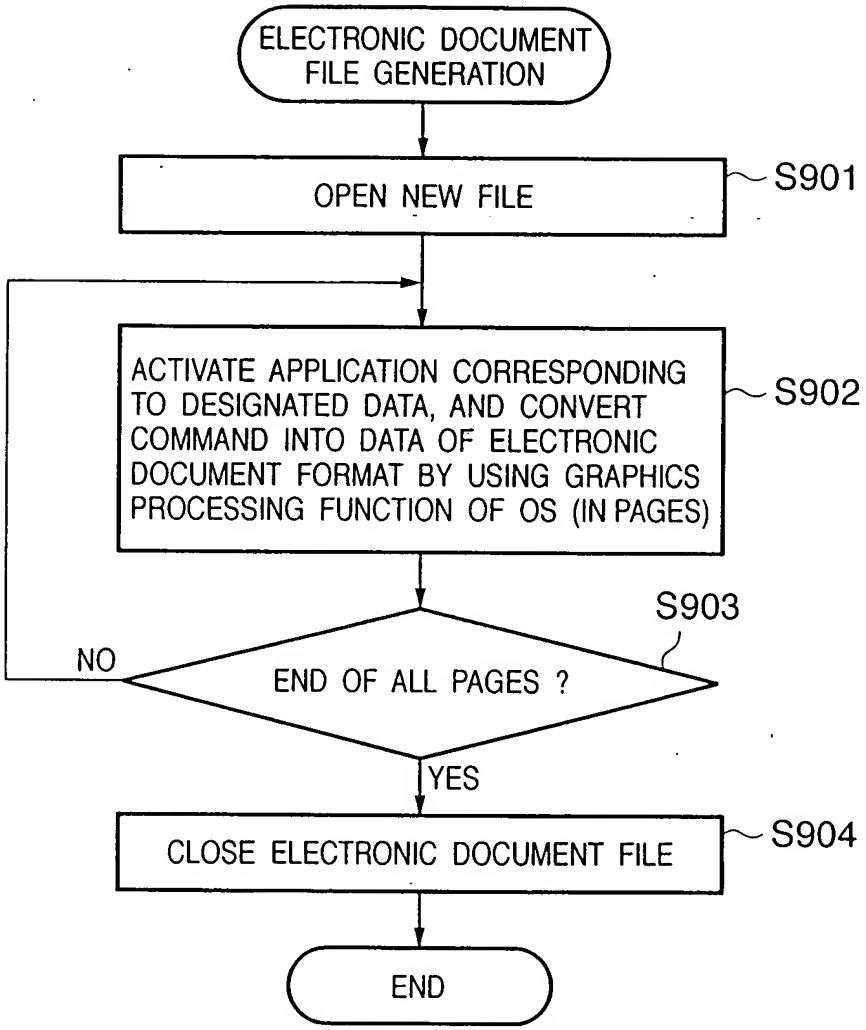

ELECTRONIC DOCUMENT FILE GENERATION
OPEN NEW FILE
S901
ACTIVATE APPLICATION CORRESPONDING TO DESIGNATED DATA, AND CONVERT COMMAND INTO DATA OF ELECTRONIC DOCUMENT FORMAT BY USING GRAPHICS PROCESSING FUNCTION OF OS (IN PAGES)
S902
S903
END OF ALL PAGES ?
NO
YES
CLOSE ELECTRONIC DOCUMENT FILE
S904
END

FIG. 10

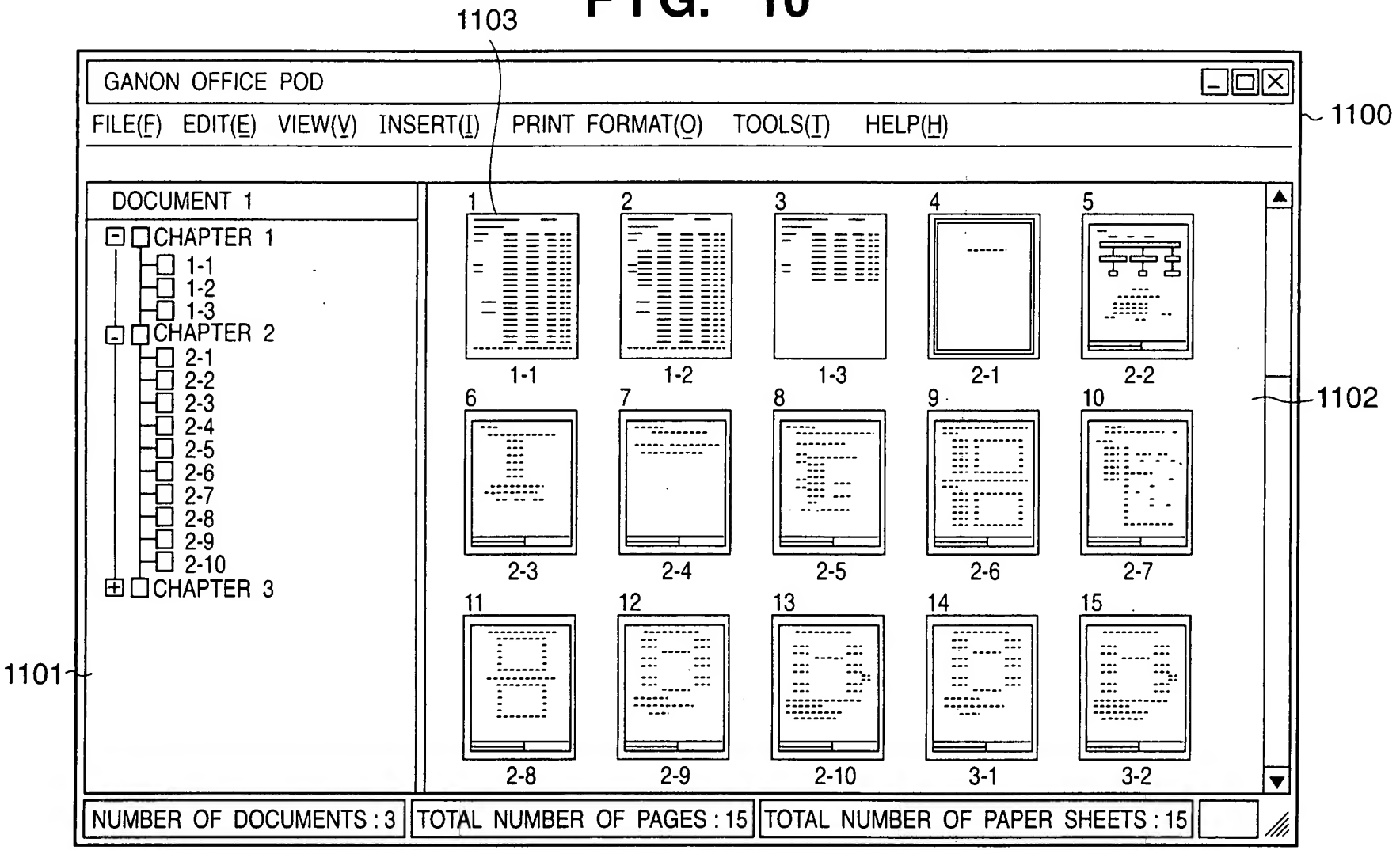

1103
GANON OFFICE POD
FILE(F) EDIT(E) VIEW(V) INSERT(I) PRINT FORMAT(O) TOOLS(T) HELP(H)
1100
DOCUMENT 1
CHAPTER 1
1-1
1-2
1-3
CHAPTER 2
2-1
2-2
2-3
2-4
2-5
2-6
2-7
2-8
2-9
2-10
CHAPTER 3
1101
1
2
3
4
5
1-1
1-2
1-3
2-1
2-2
6
7
8
9
10
2-3
2-4
2-5
2-6
2-7
11
12
13
14
15
2-8
2-9
2-10
3-1
3-2
1102
NUMBER OF DOCUMENTS : 3
TOTAL NUMBER OF PAGES : 15
TOTAL NUMBER OF PAPER SHEETS : 15

FIG. 11

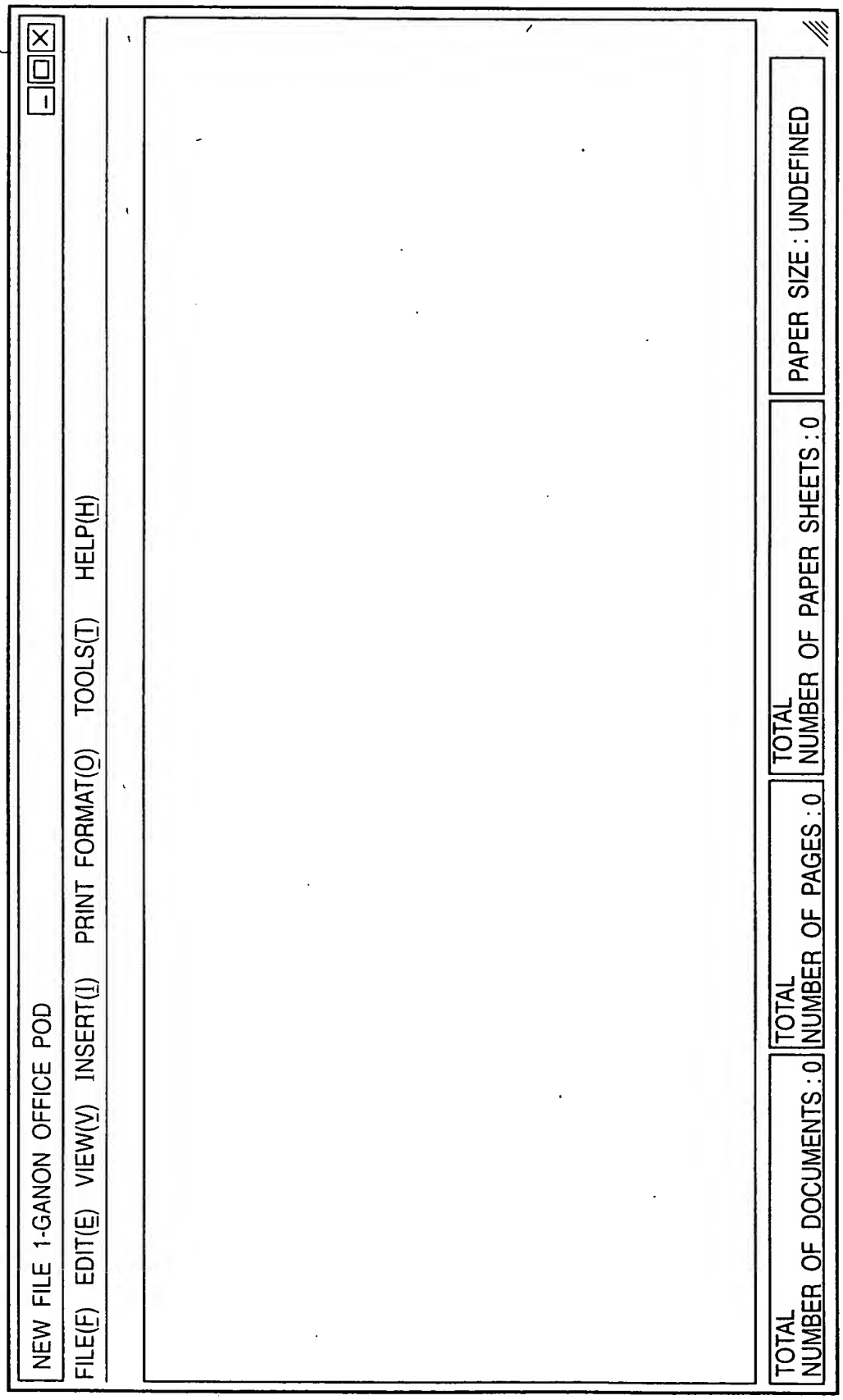

1100
NEW FILE 1-GANON OFFICE POD
FILE(F) EDIT(E) VIEW(V) INSERT(I) PRINT FORMAT(O) TOOLS(T) HELP(H)
TOTAL NUMBER OF DOCUMENTS : 0
TOTAL NUMBER OF PAGES : 0
TOTAL NUMBER OF PAPER SHEETS : 0
PAPER SIZE : UNDEFINED

FIG. 12

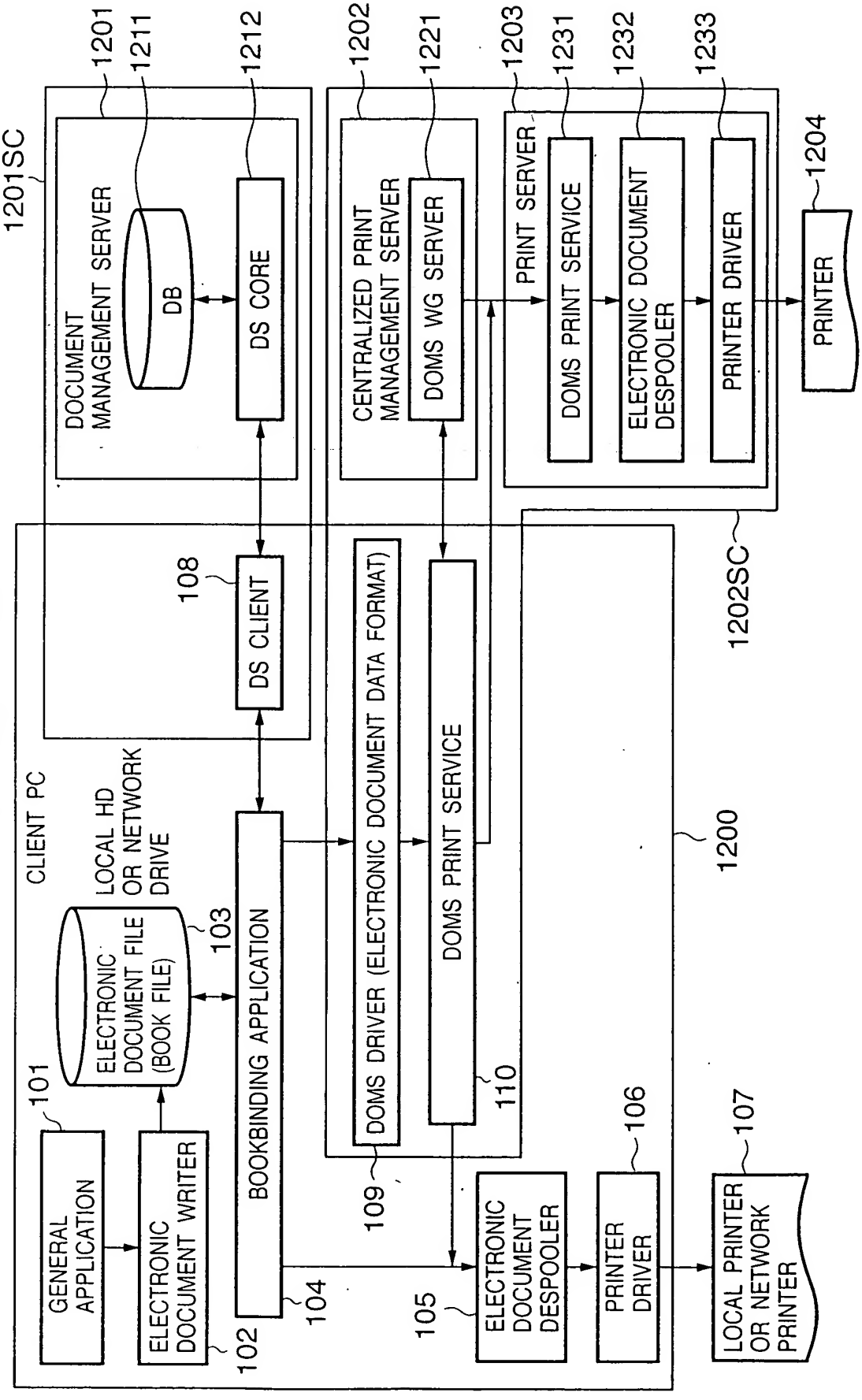

1201SC
1201
1211
1212
DOCUMENT MANAGEMENT SERVER
DB
DS CORE
1202
1221
CENTRALIZED PRINT MANAGEMENT SERVER
DOMS WG SERVER
1203
1231
1232
1233
PRINT SERVER
DOMS PRINT SERVICE
ELECTRONIC DOCUMENT DESPOOLER
PRINTER DRIVER
1204
PRINTER
1202SC
108
DS CLIENT
CLIENT PC
LOCAL HD OR NETWORK DRIVE
ELECTRONIC DOCUMENT FILE (BOOK FILE)
103
101
GENERAL APPLICATION
ELECTRONIC DOCUMENT WRITER
102
BOOKBINDING APPLICATION
104
DOMS DRIVER (ELECTRONIC DOCUMENT DATA FORMAT)
109
DOMS PRINT SERVICE
110
1200
105
ELECTRONIC DOCUMENT DESPOOLER
PRINTER DRIVER
106
LOCAL PRINTER OR NETWORK PRINTER
107

FIG. 13

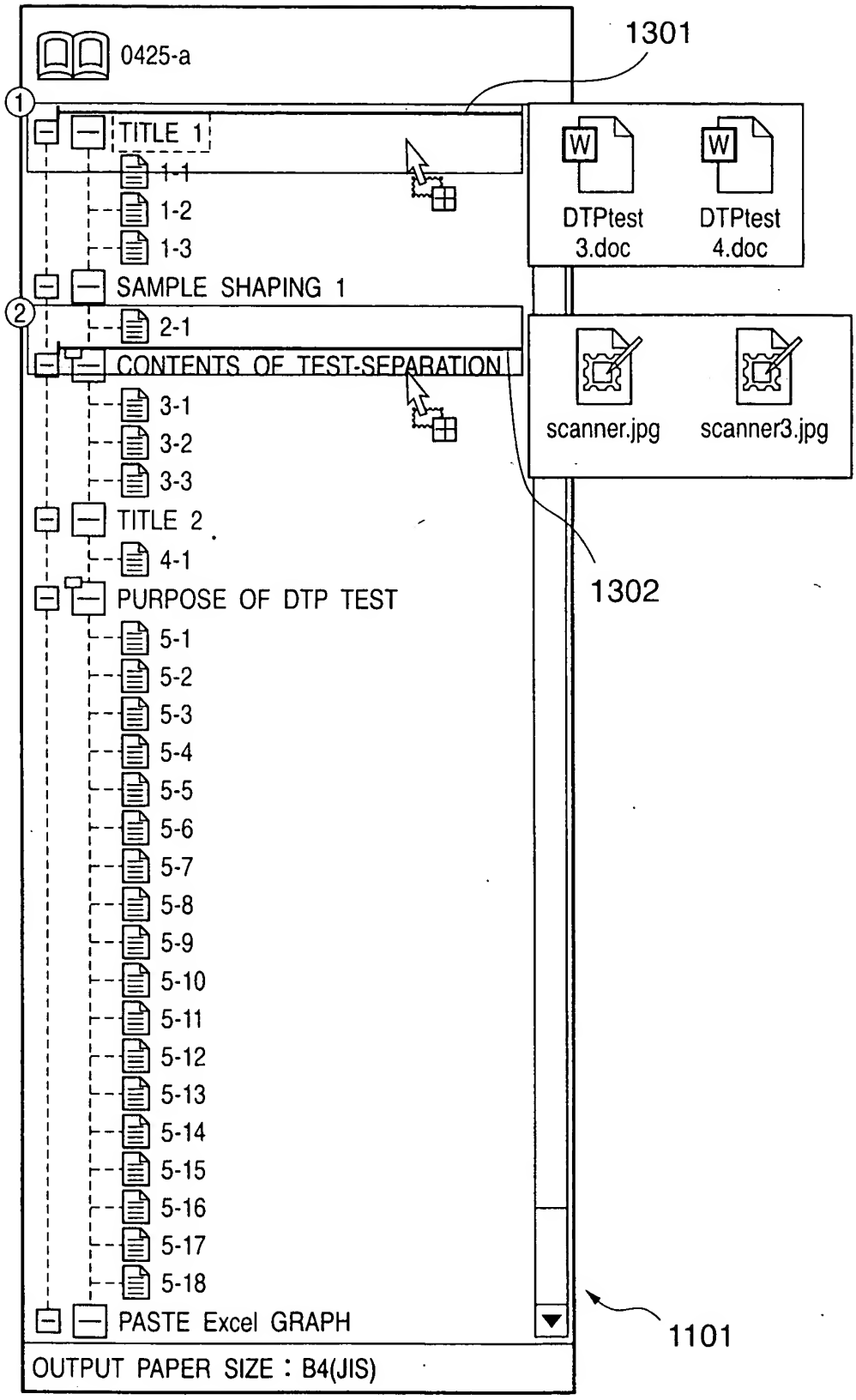

0425-a
1301
TITLE 1
1-1
1-2
1-3
SAMPLE SHAPING 1
2-1
CONTENTS OF TEST-SEPARATION
3-1
3-2
3-3
TITLE 2
4-1
PURPOSE OF DTP TEST
5-1
5-2
5-3
5-4
5-5
5-6
5-7
5-8
5-9
5-10
5-11
5-12
5-13
5-14
5-15
5-16
5-17
5-18
PASTE Excel GRAPH
OUTPUT PAPER SIZE : B4(JIS)
DTPtest 3.doc
DTPtest 4.doc
scanner.jpg
scanner3.jpg
1302
1101

FIG. 14

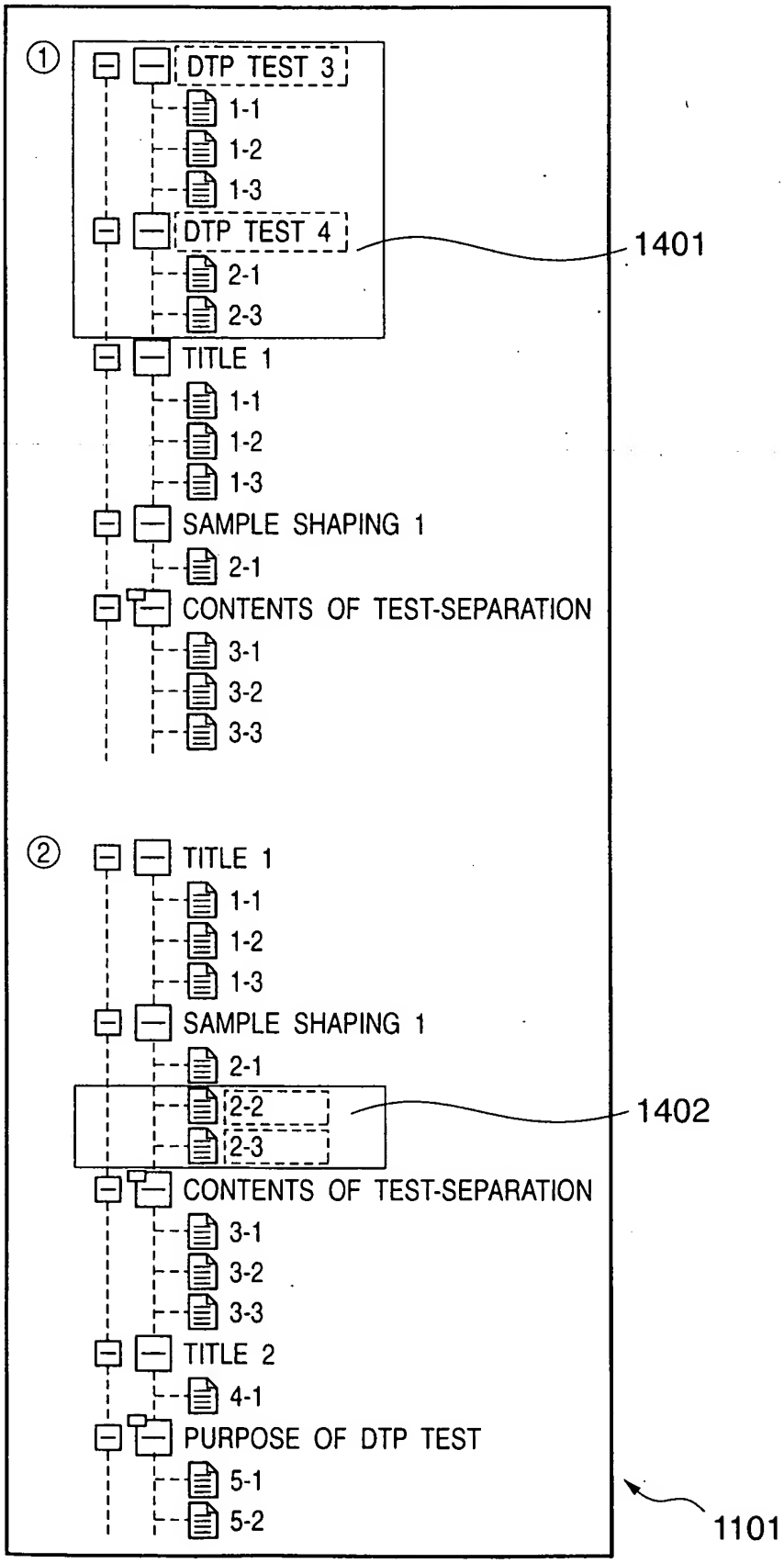

①
DTP TEST 3
1-1
1-2
1-3
DTP TEST 4
2-1
2-3
TITLE 1
1-1
1-2
1-3
SAMPLE SHAPING 1
2-1
CONTENTS OF TEST-SEPARATION
3-1
3-2
3-3
1401
②
TITLE 1
1-1
1-2
1-3
SAMPLE SHAPING 1
2-1
2-2
2-3
CONTENTS OF TEST-SEPARATION
3-1
3-2
3-3
TITLE 2
4-1
PURPOSE OF DTP TEST
5-1
5-2
1402
1101

FIG. 15

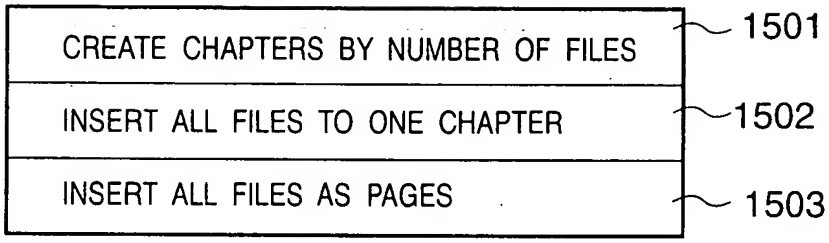

CREATE CHAPTERS BY NUMBER OF FILES
1501
INSERT ALL FILES TO ONE CHAPTER
1502
INSERT ALL FILES AS PAGES
1503

FIG. 16

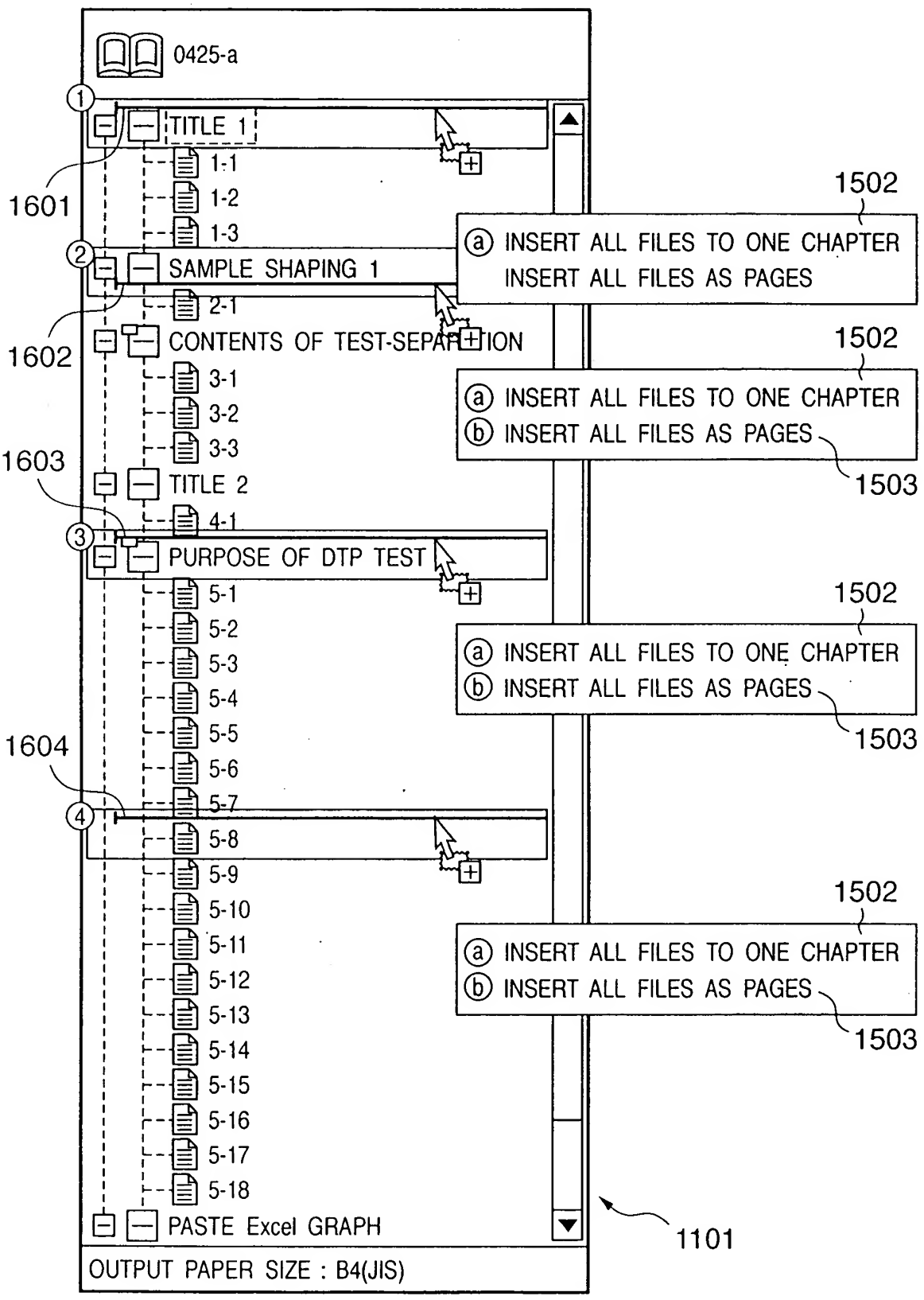

0425-a
TITLE 1
1-1
1-2
1-3
SAMPLE SHAPING 1
2-1
CONTENTS OF TEST-SEPARATION
3-1
3-2
3-3
TITLE 2
4-1
PURPOSE OF DTP TEST
5-1
5-2
5-3
5-4
5-5
5-6
5-7
5-8
5-9
5-10
5-11
5-12
5-13
5-14
5-15
5-16
5-17
5-18
PASTE Excel GRAPH
OUTPUT PAPER SIZE : B4(JIS)
1601
1602
1603
1604
1502
ⓐ INSERT ALL FILES TO ONE CHAPTER
INSERT ALL FILES AS PAGES
1502
ⓐ INSERT ALL FILES TO ONE CHAPTER
ⓑ INSERT ALL FILES AS PAGES
1503
1502
ⓐ INSERT ALL FILES TO ONE CHAPTER
ⓑ INSERT ALL FILES AS PAGES
1503
1502
ⓐ INSERT ALL FILES TO ONE CHAPTER
ⓑ INSERT ALL FILES AS PAGES
1503
1101

FIG. 17

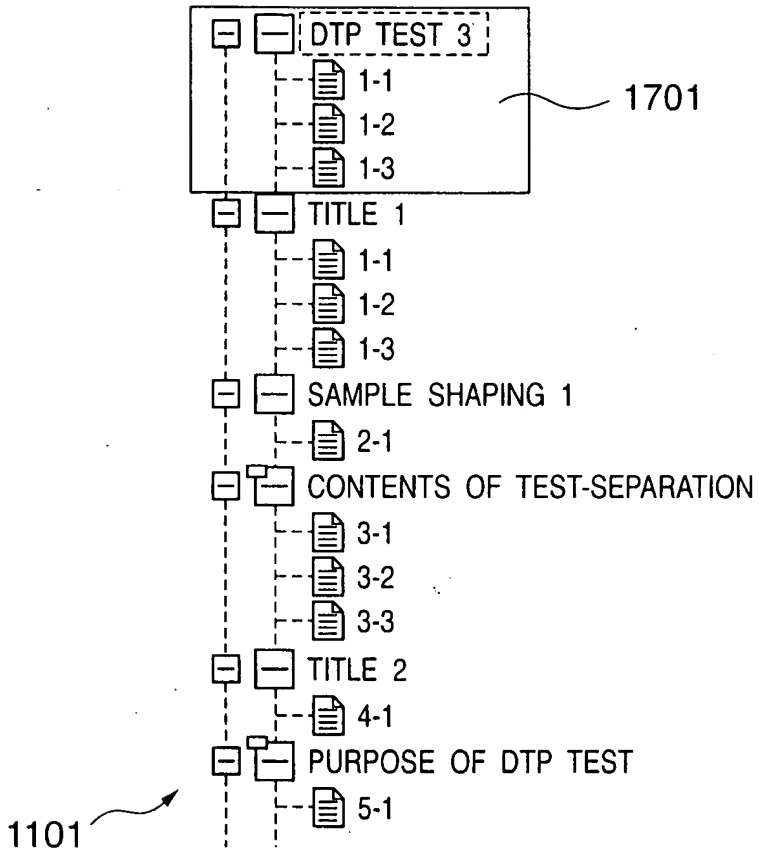

DTP TEST 3
1-1
1-2
1-3
1701
TITLE 1
1-1
1-2
1-3
SAMPLE SHAPING 1
2-1
CONTENTS OF TEST-SEPARATION
3-1
3-2
3-3
TITLE 2
4-1
PURPOSE OF DTP TEST
5-1
1101

FIG. 18A

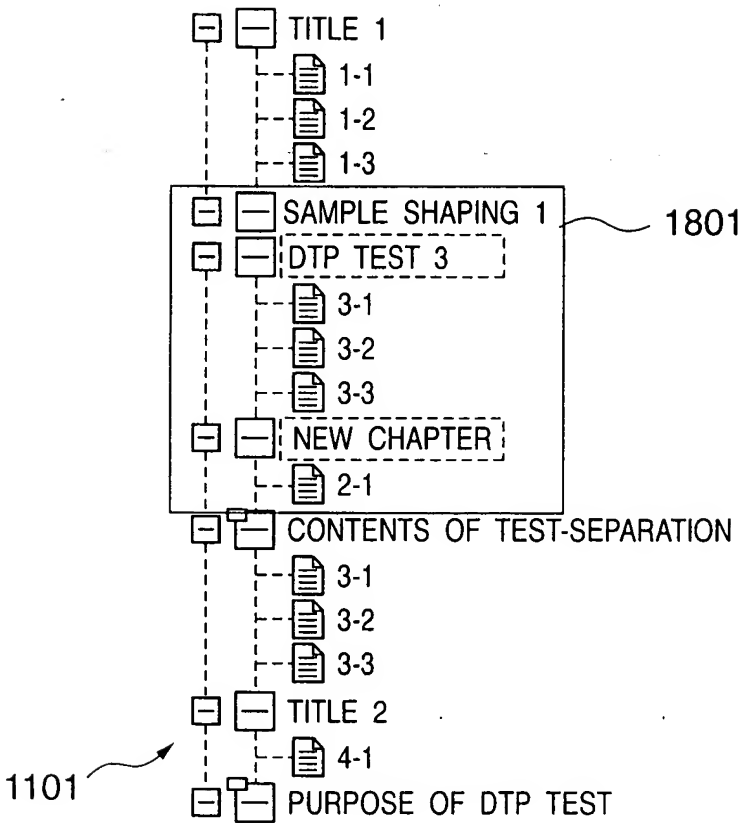

TITLE 1
1-1
1-2
1-3
SAMPLE SHAPING 1
1801
DTP TEST 3
3-1
3-2
3-3
NEW CHAPTER
2-1
CONTENTS OF TEST-SEPARATION
3-1
3-2
3-3
TITLE 2
4-1
PURPOSE OF DTP TEST
1101

FIG. 18B

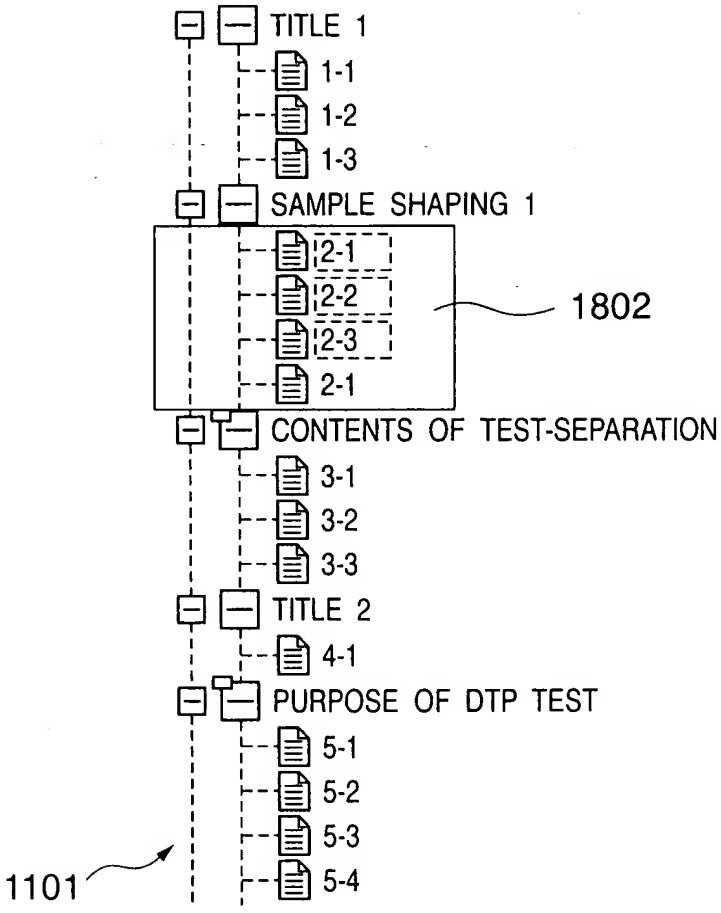

TITLE 1
1-1
1-2
1-3
SAMPLE SHAPING 1
2-1
2-2
2-3
2-1
1802
CONTENTS OF TEST-SEPARATION
3-1
3-2
3-3
TITLE 2
4-1
PURPOSE OF DTP TEST
5-1
5-2
5-3
5-4
1101

FIG. 19A

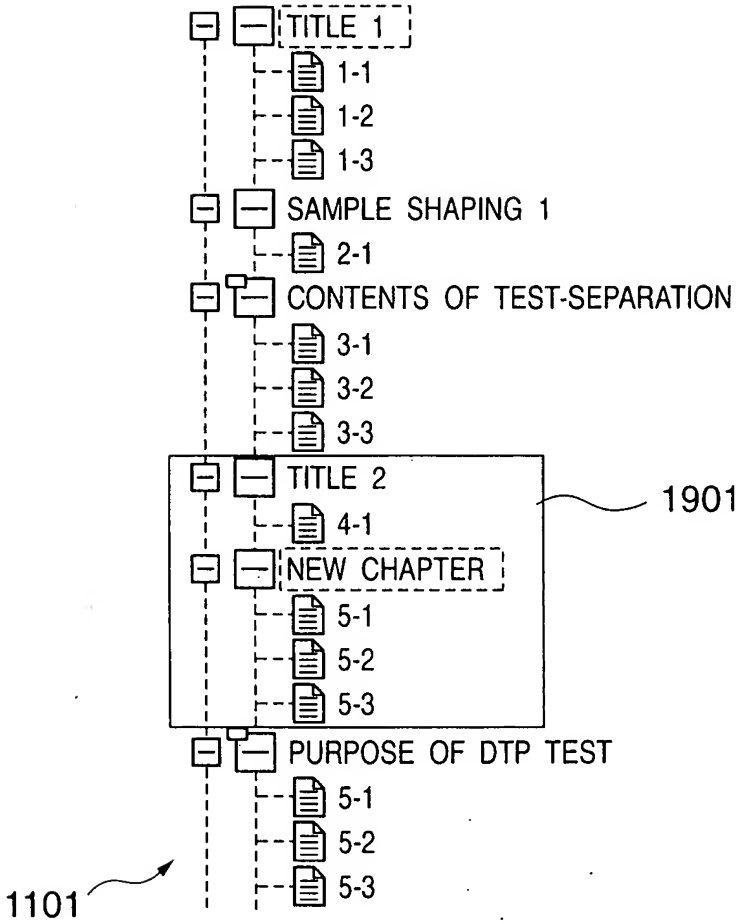

TITLE 1
1-1
1-2
1-3
SAMPLE SHAPING 1
2-1
CONTENTS OF TEST-SEPARATION
3-1
3-2
3-3
TITLE 2
4-1
NEW CHAPTER
5-1
5-2
5-3
1901
PURPOSE OF DTP TEST
5-1
5-2
5-3
1101

FIG. 19B

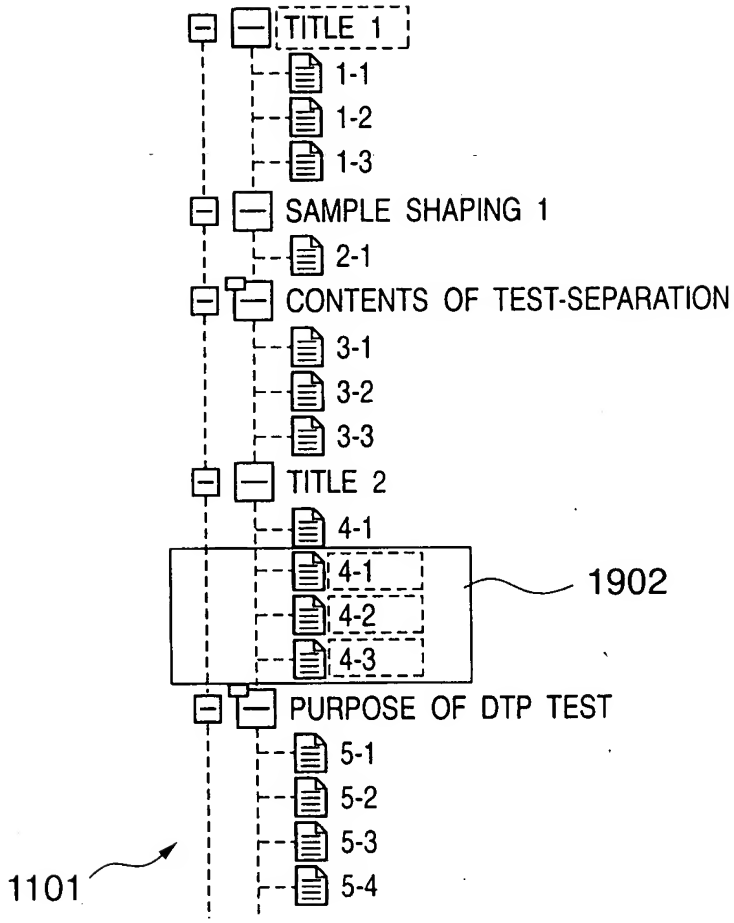

TITLE 1
1-1
1-2
1-3
SAMPLE SHAPING 1
2-1
CONTENTS OF TEST-SEPARATION
3-1
3-2
3-3
TITLE 2
4-1
4-1
4-2
4-3
1902
PURPOSE OF DTP TEST
5-1
5-2
5-3
5-4
1101

FIG. 20A

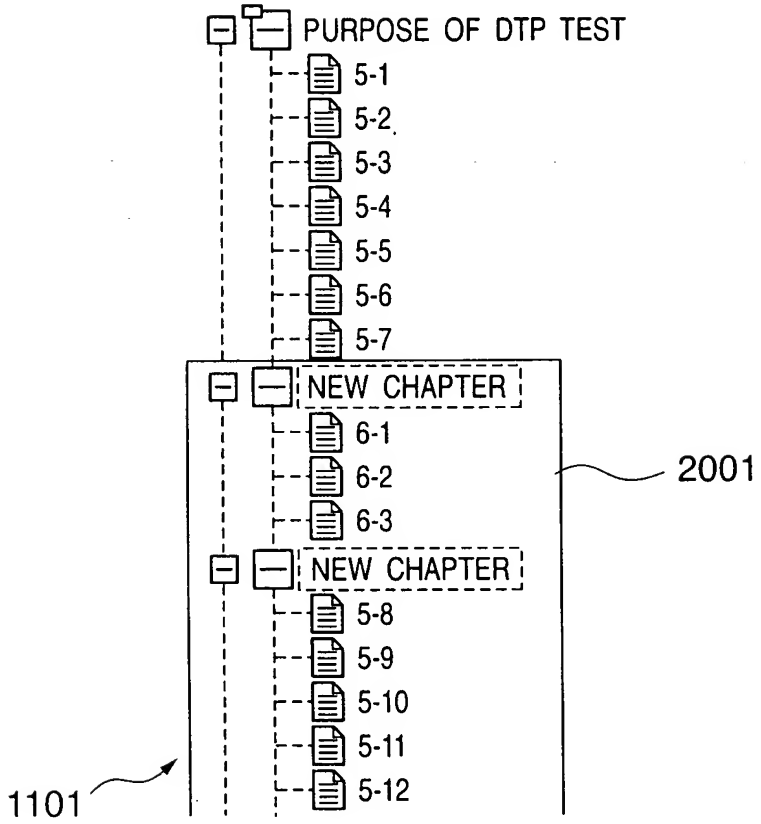

PURPOSE OF DTP TEST
5-1
5-2
5-3
5-4
5-5
5-6
5-7
NEW CHAPTER
6-1
6-2
6-3
NEW CHAPTER
5-8
5-9
5-10
5-11
5-12
2001
1101

FIG. 20B

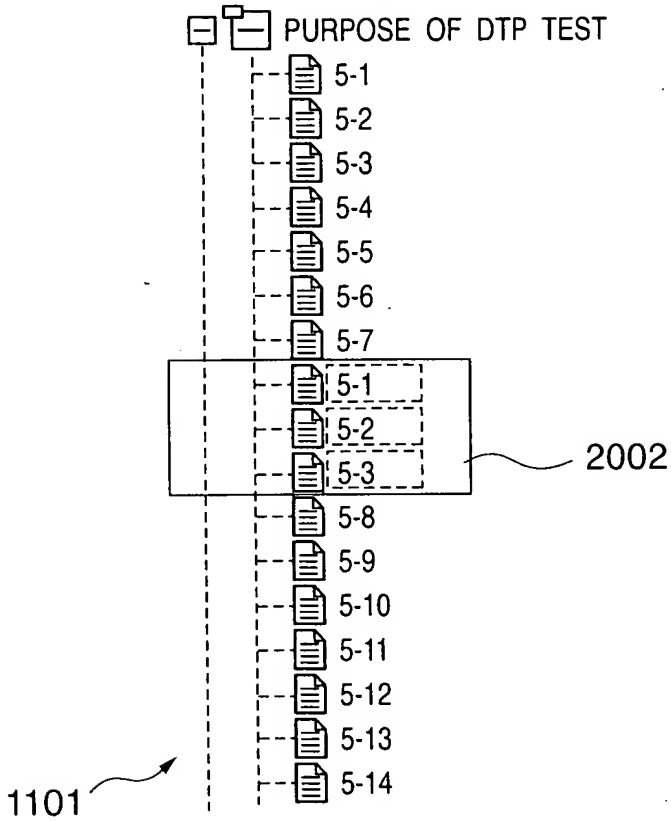

PURPOSE OF DTP TEST
5-1
5-2
5-3
5-4
5-5
5-6
5-7
5-1
5-2
5-3
2002
5-8
5-9
5-10
5-11
5-12
5-13
5-14
1101

FIG. 21

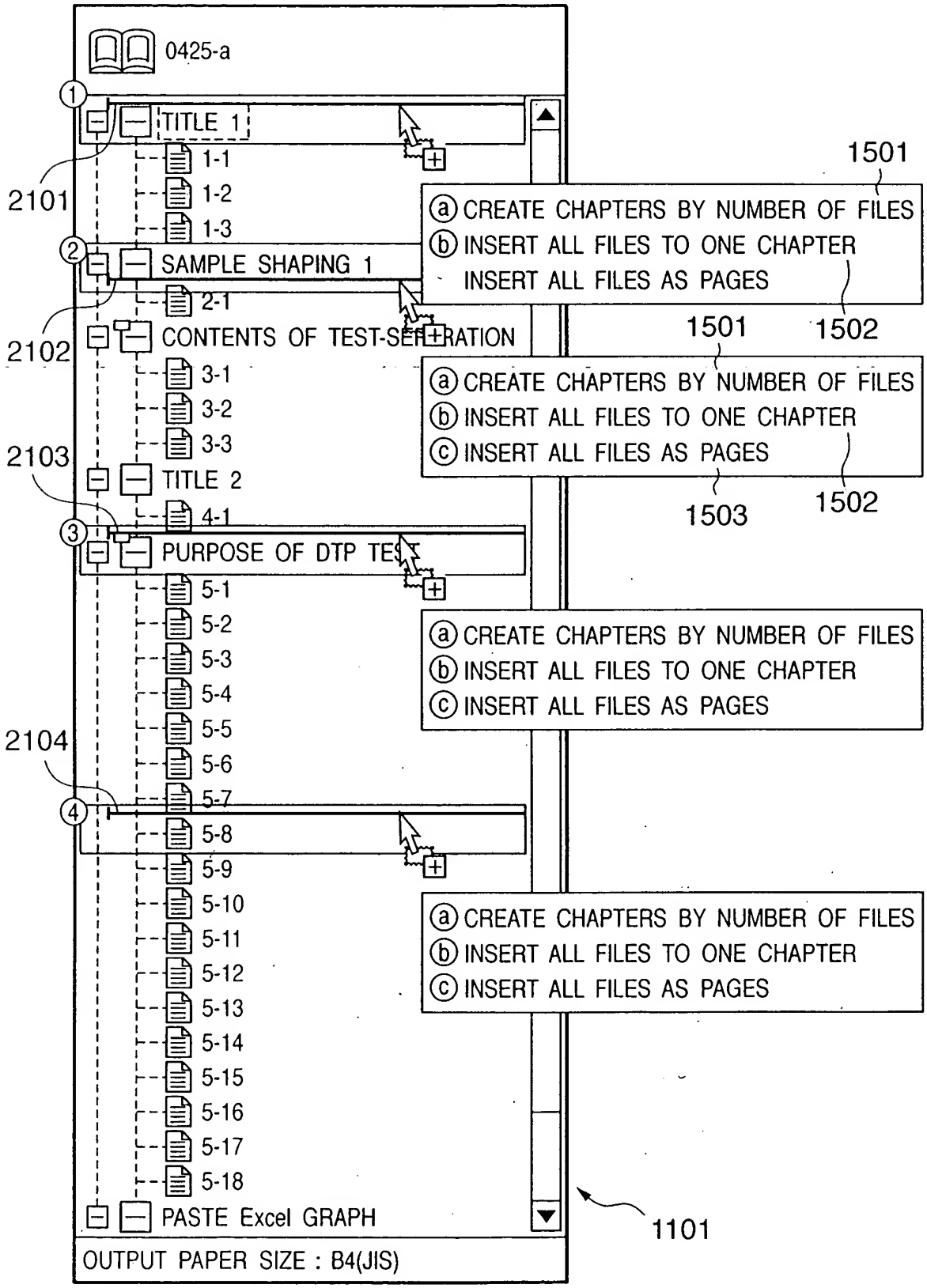

0425-a
TITLE 1
1-1
1-2
1-3
SAMPLE SHAPING 1
2-1
CONTENTS OF TEST-SEPARATION
3-1
3-2
3-3
TITLE 2
4-1
PURPOSE OF DTP TEST
5-1
5-2
5-3
5-4
5-5
5-6
5-7
5-8
5-9
5-10
5-11
5-12
5-13
5-14
5-15
5-16
5-17
5-18
PASTE Excel GRAPH
OUTPUT PAPER SIZE : B4(JIS)
2101
2102
2103
2104
1501
1502
1503
1101
ⓐ CREATE CHAPTERS BY NUMBER OF FILES
ⓑ INSERT ALL FILES TO ONE CHAPTER
INSERT ALL FILES AS PAGES
ⓒ INSERT ALL FILES AS PAGES

FIG. 22A

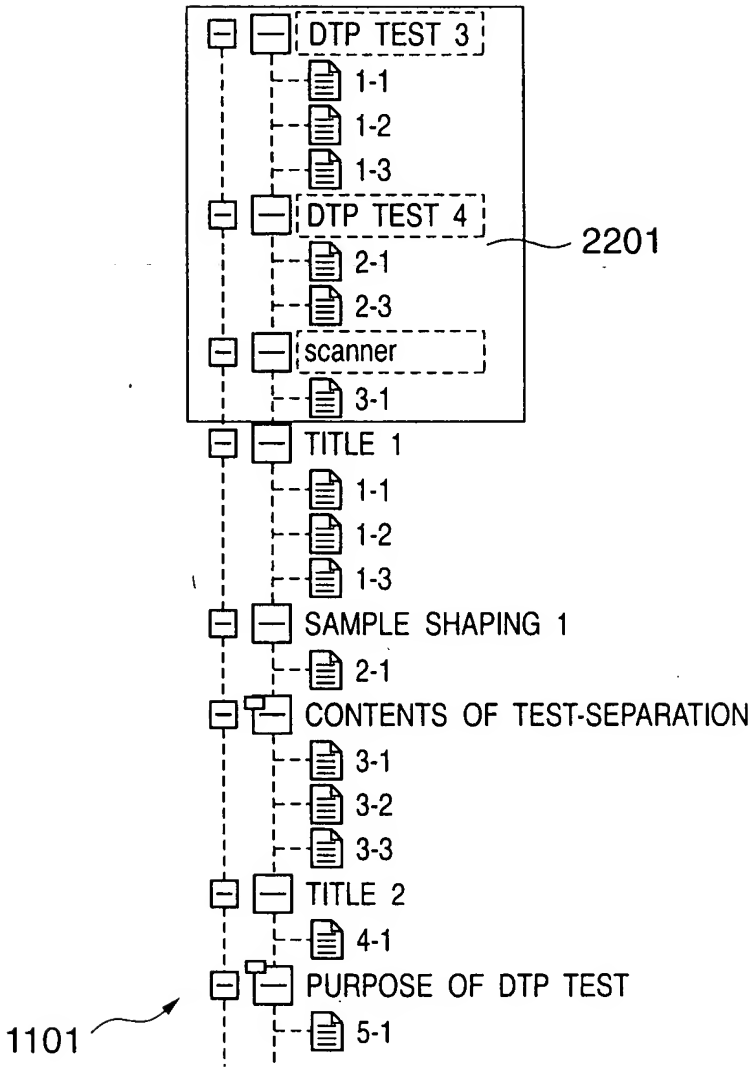

DTP TEST 3
1-1
1-2
1-3
DTP TEST 4
2201
2-1
2-3
scanner
3-1
TITLE 1
1-1
1-2
1-3
SAMPLE SHAPING 1
2-1
CONTENTS OF TEST-SEPARATION
3-1
3-2
3-3
TITLE 2
4-1
PURPOSE OF DTP TEST
1101
5-1

FIG. 22B

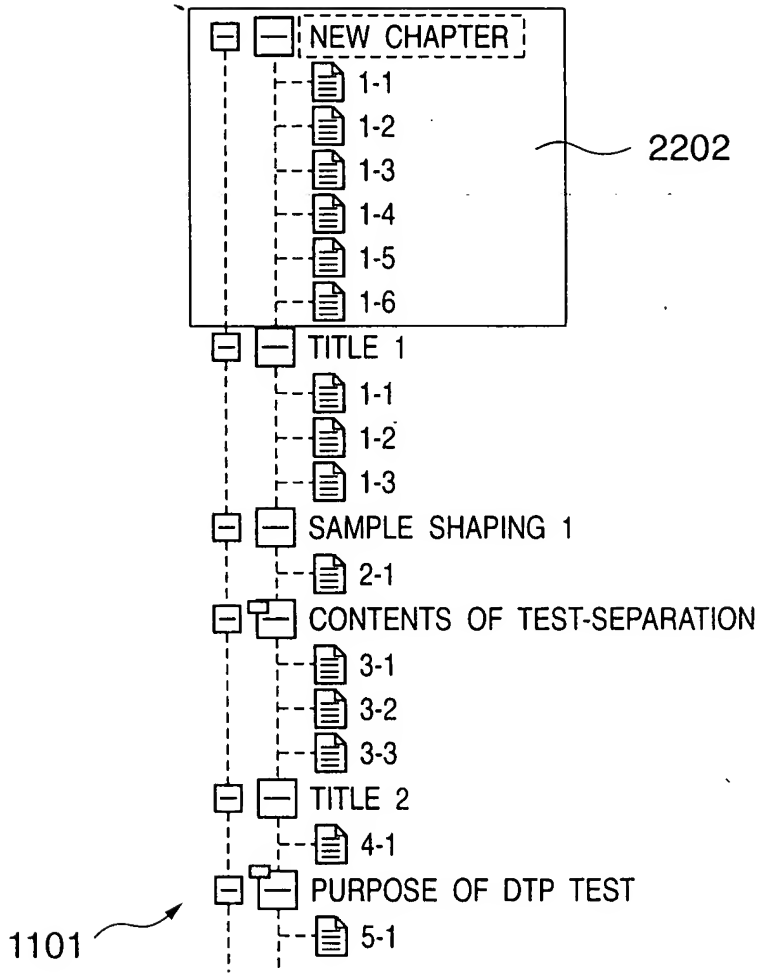

NEW CHAPTER
1-1
1-2
1-3
1-4
1-5
1-6
2202
TITLE 1
1-1
1-2
1-3
SAMPLE SHAPING 1
2-1
CONTENTS OF TEST-SEPARATION
3-1
3-2
3-3
TITLE 2
4-1
PURPOSE OF DTP TEST
5-1
1101

FIG. 23A

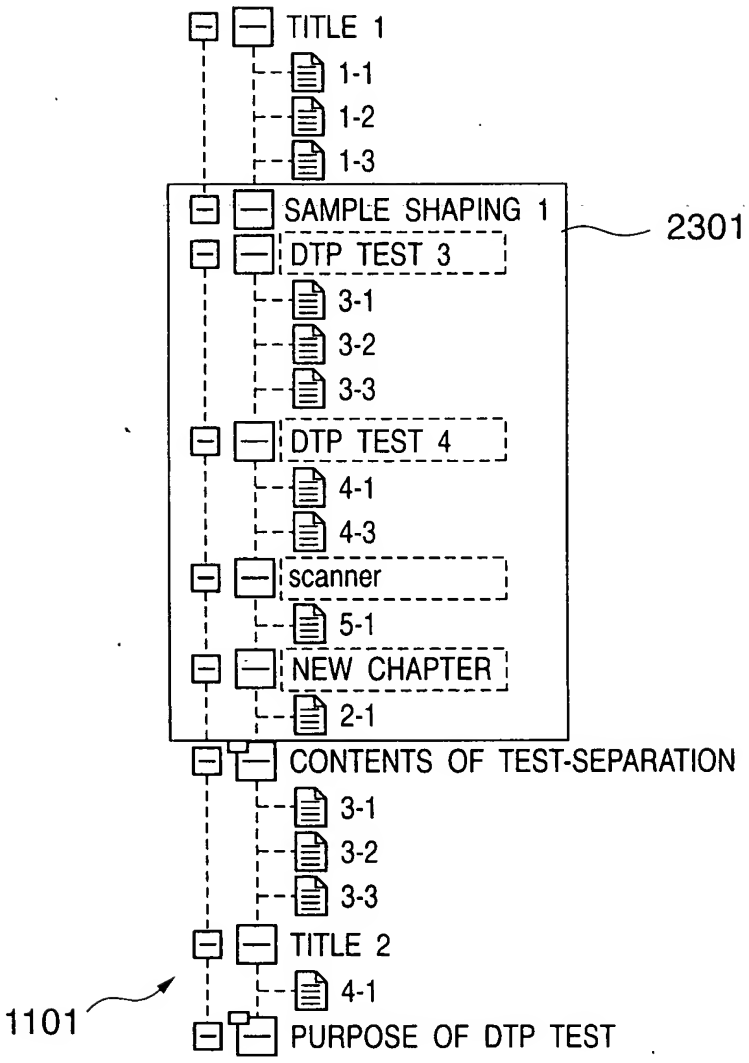

TITLE 1
1-1
1-2
1-3
SAMPLE SHAPING 1
2301
DTP TEST 3
3-1
3-2
3-3
DTP TEST 4
4-1
4-3
scanner
5-1
NEW CHAPTER
2-1
CONTENTS OF TEST-SEPARATION
3-1
3-2
3-3
TITLE 2
4-1
1101
PURPOSE OF DTP TEST

FIG. 23B

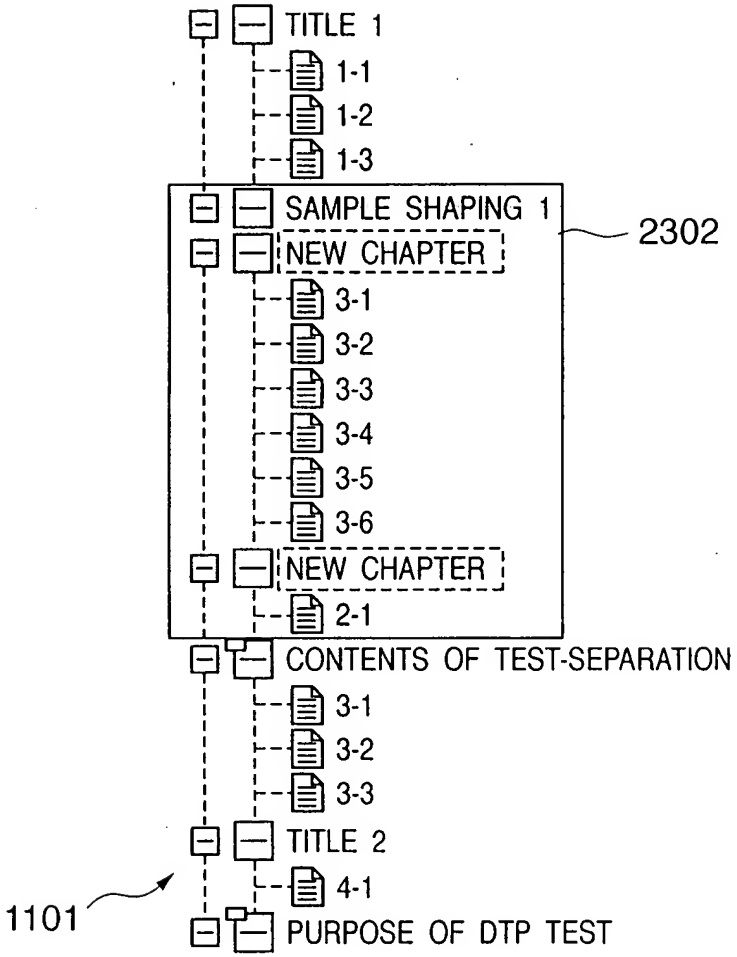

TITLE 1
1-1
1-2
1-3
SAMPLE SHAPING 1
NEW CHAPTER
3-1
3-2
3-3
3-4
3-5
3-6
NEW CHAPTER
2-1
2302
CONTENTS OF TEST-SEPARATION
3-1
3-2
3-3
TITLE 2
4-1
PURPOSE OF DTP TEST
1101

FIG. 23C

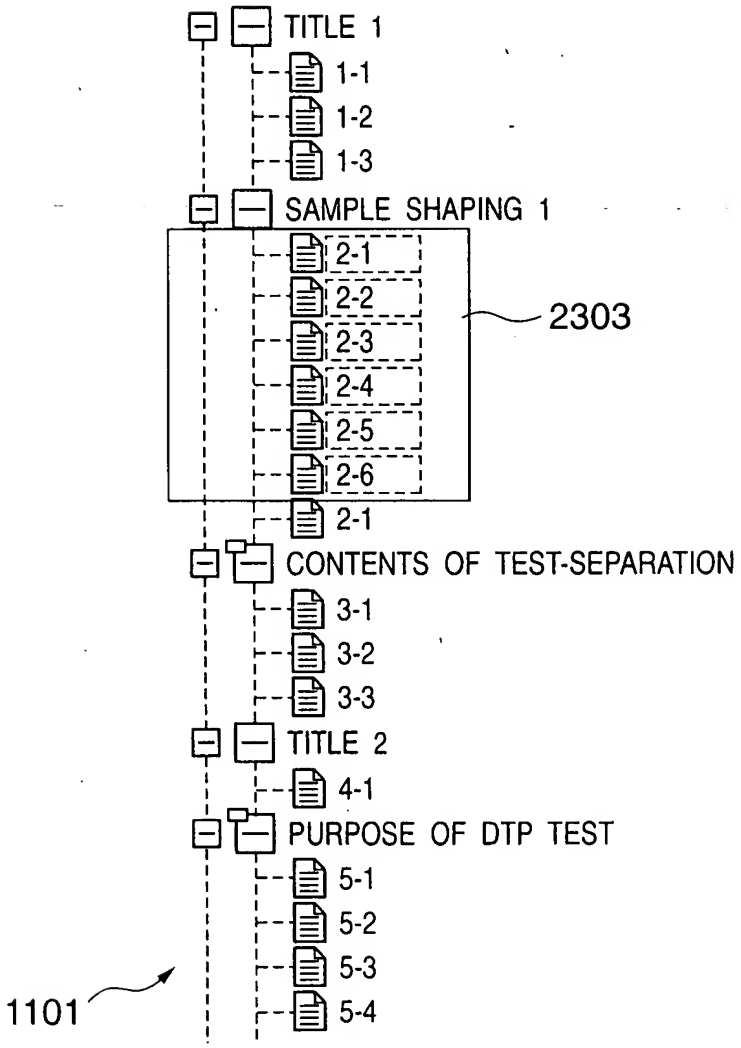

TITLE 1
1-1
1-2
1-3
SAMPLE SHAPING 1
2-1
2-2
2-3
2-4
2-5
2-6
2303
2-1
CONTENTS OF TEST-SEPARATION
3-1
3-2
3-3
TITLE 2
4-1
PURPOSE OF DTP TEST
5-1
5-2
5-3
5-4
1101

FIG. 24A

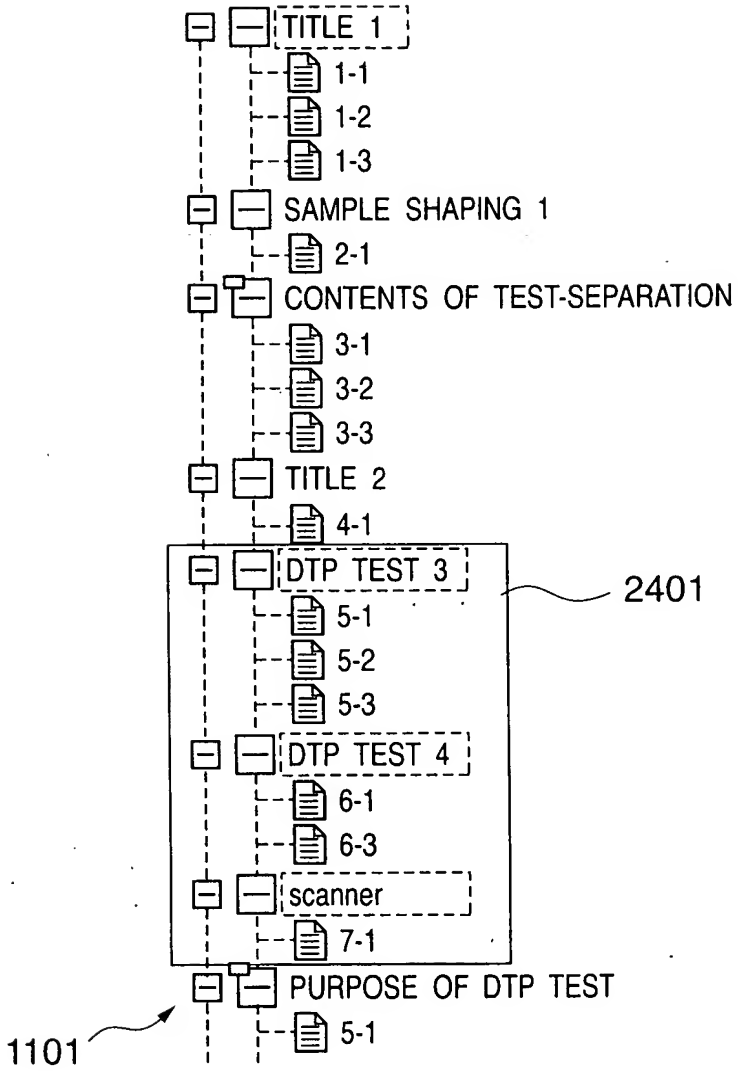

TITLE 1
1-1
1-2
1-3
SAMPLE SHAPING 1
2-1
CONTENTS OF TEST-SEPARATION
3-1
3-2
3-3
TITLE 2
4-1
DTP TEST 3
5-1
5-2
5-3
DTP TEST 4
6-1
6-3
scanner
7-1
PURPOSE OF DTP TEST
5-1
2401
1101

FIG. 24B

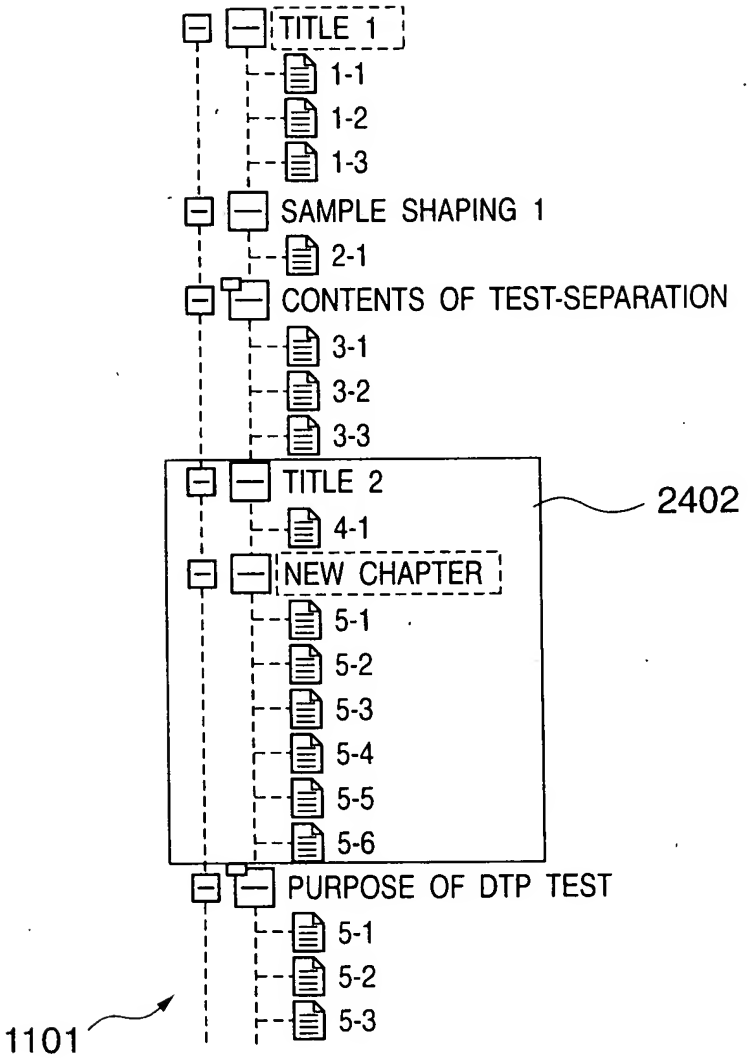

TITLE 1
1-1
1-2
1-3
SAMPLE SHAPING 1
2-1
CONTENTS OF TEST-SEPARATION
3-1
3-2
3-3
TITLE 2
4-1
NEW CHAPTER
5-1
5-2
5-3
5-4
5-5
5-6
PURPOSE OF DTP TEST
5-1
5-2
5-3
2402
1101

FIG. 24C

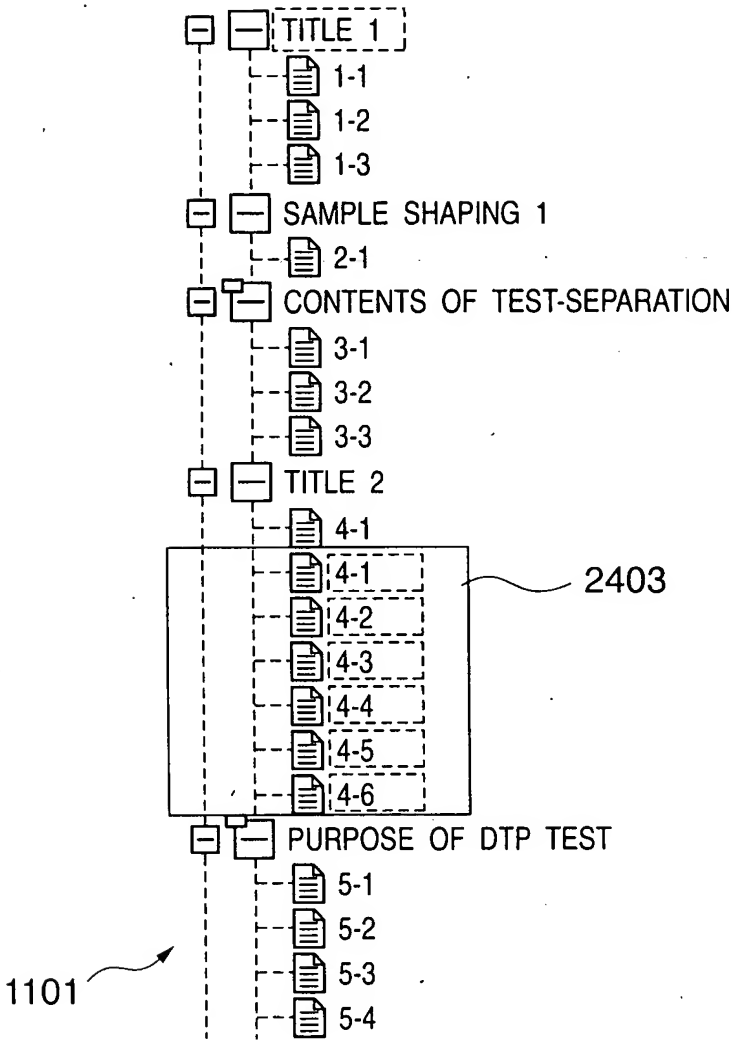

TITLE 1
1-1
1-2
1-3
SAMPLE SHAPING 1
2-1
CONTENTS OF TEST-SEPARATION
3-1
3-2
3-3
TITLE 2
4-1
4-1
4-2
4-3
4-4
4-5
4-6
2403
PURPOSE OF DTP TEST
5-1
5-2
5-3
5-4
1101

FIG. 25A

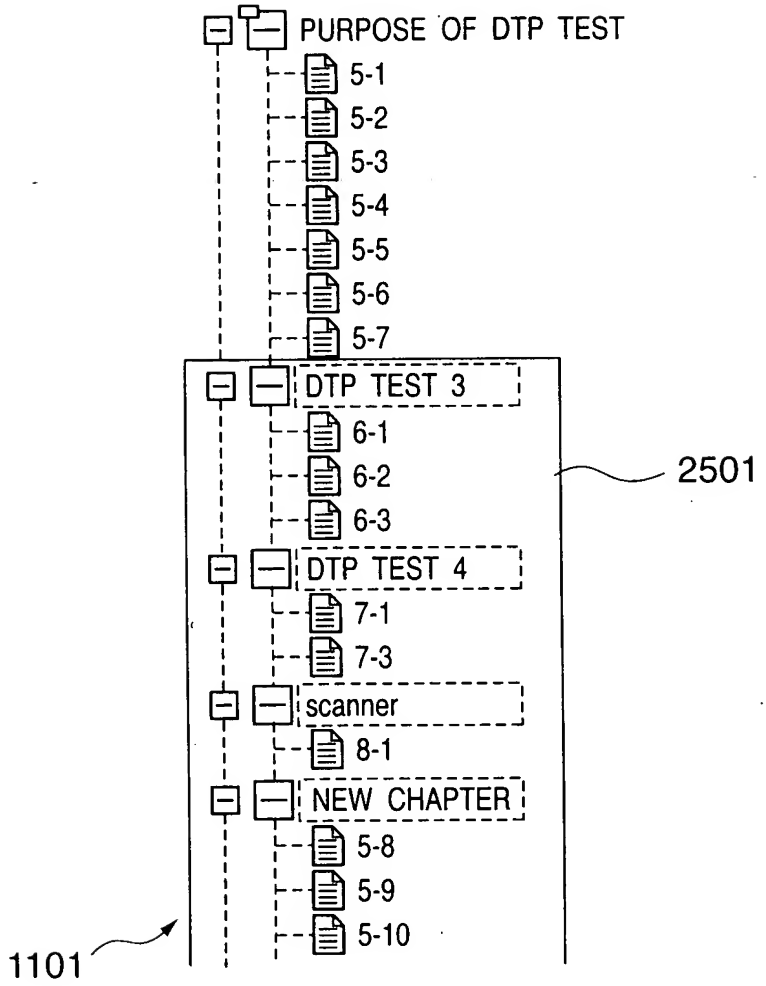

PURPOSE OF DTP TEST
5-1
5-2
5-3
5-4
5-5
5-6
5-7
DTP TEST 3
6-1
6-2
6-3
DTP TEST 4
7-1
7-3
scanner
8-1
NEW CHAPTER
5-8
5-9
5-10
2501
1101

FIG. 25B

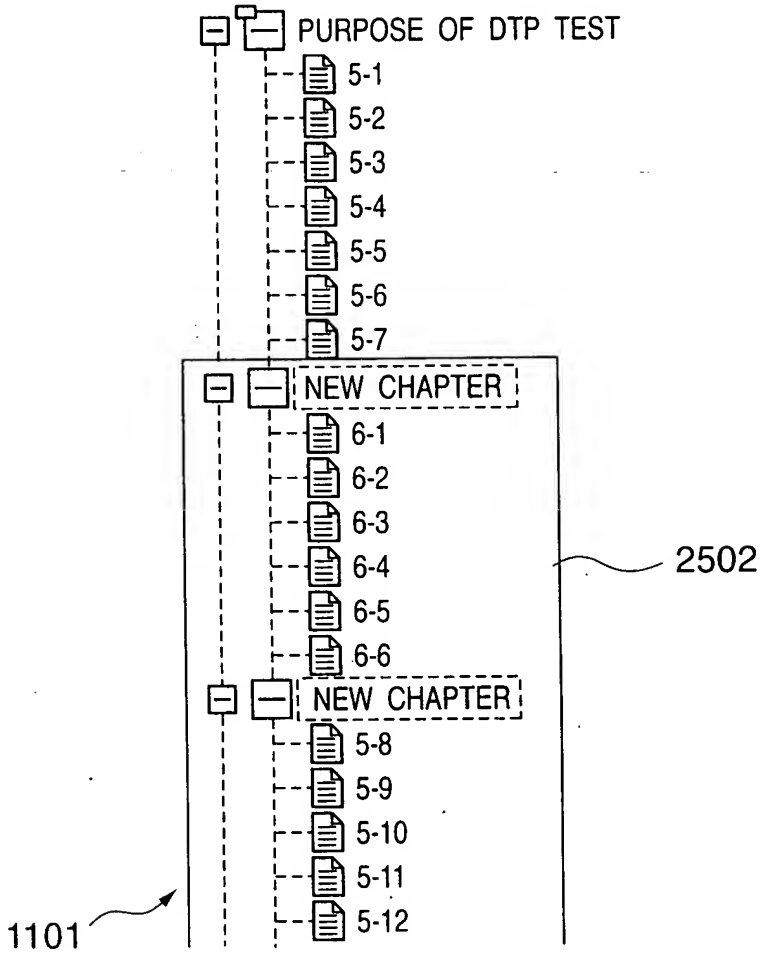
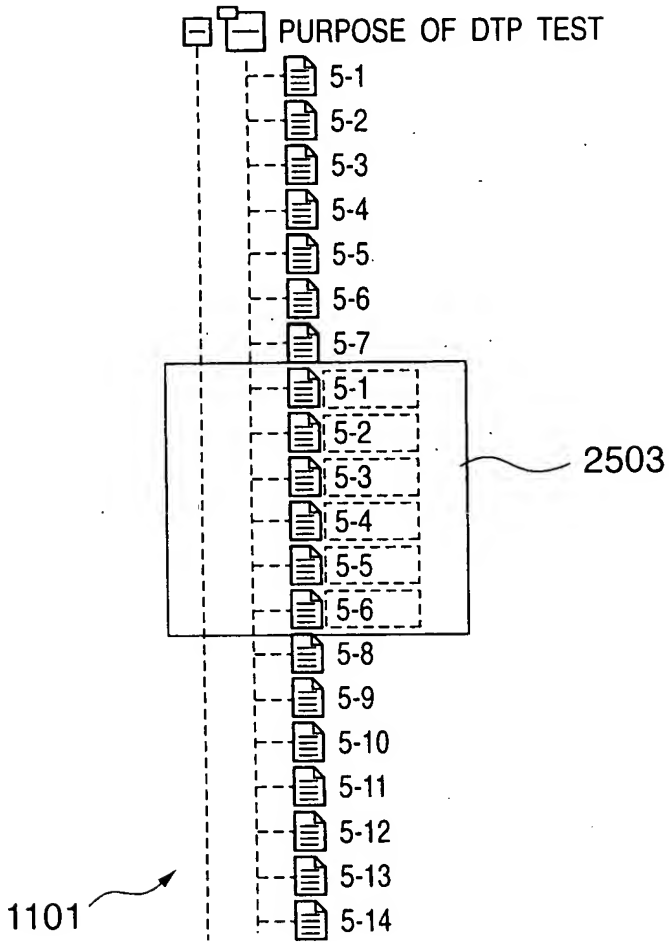

PURPOSE OF DTP TEST
5-1
5-2
5-3
5-4
5-5
5-6
5-7
NEW CHAPTER
6-1
6-2
6-3
6-4
6-5
6-6
NEW CHAPTER
5-8
5-9
5-10
5-11
5-12
2502
1101

FIG. 25C


PURPOSE OF DTP TEST
5-1
5-2
5-3
5-4
5-5
5-6
5-7
5-1
5-2
5-3
5-4
5-5
5-6
2503
5-8
5-9
5-10
5-11
5-12
5-13
5-14
1101